DYNAMIC OPTICS

ADAPTIVE OPTICS TECHNOLOGIES

Lasercom Optical linK InsTrument (LOCK-IT COMPACT)











A compact Deployable Adaptive Optics Platform developed through modular architecture for real-time atmospheric turbulence correction in optical ground stations

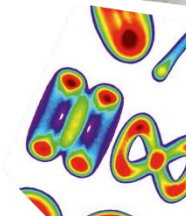
Ideal for

ENHANCE FIBER COUPLING EFFICIENCY IN COMPACT-DEPLOYABLE GROUND STATIONS

FREE SPACE OPTICAL COMUNICATION

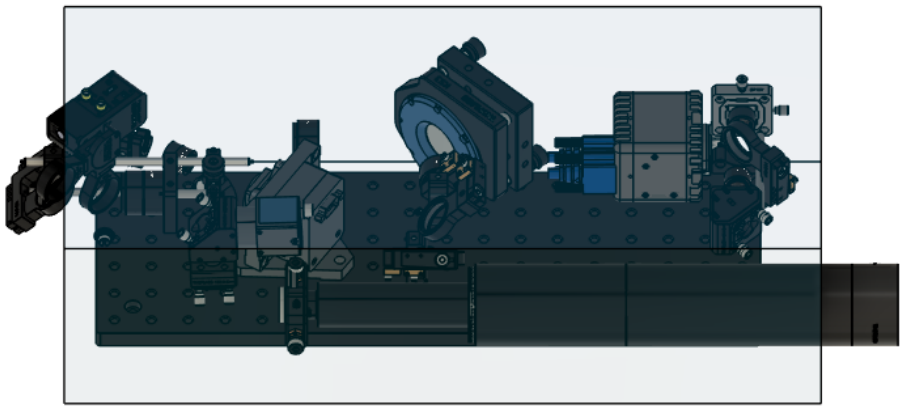
For more info

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Solution		Base (tip-tilt)	High end (tip-tilt + wavefront correction)	High end +TX	High end + TX + tracking
RX	fast steering mirror	Yes	Yes	Yes	Yes
	Deformable mirror	Not	Yes	Yes	Yes
	Wave front sensor	Yes	Yes	Yes	Yes
	Automatic fiber alignment	Not	Yes	Yes	Yes
TX	Sources + transmitting lens	Not	Not	Yes	Yes
Compact Control Cabinet	Real time controller	Yes	Yes	Yes	Yes
	Master control unit	Not	Yes	Yes	Yes
	Supply switch	Not	Yes	Yes	Yes



Key features

- Adaptive optics correction: Increased received optical power
- Real-time wavefront compensation: Higher SNR
- Compact footprint: Easy transportation and deployment
- Modular architecture: Flexible integration with existing systems
- Open interfaces: Compatibility with multiple OGS configurations
- Scalable design: Adaptable to different telescope apertures and mission profiles

Technical specs

- Supported telescope aperture: configurable (starting from 15 cm)
- Operating wavelength(s): C-band, if needed configurable
- Rejection bandwidth: 115 Hz
- Corrected wavefront modes: 50
- Dimensions: 20 cm x 50 cm x 15 cm
- Weight: < 15 Kg

For more info